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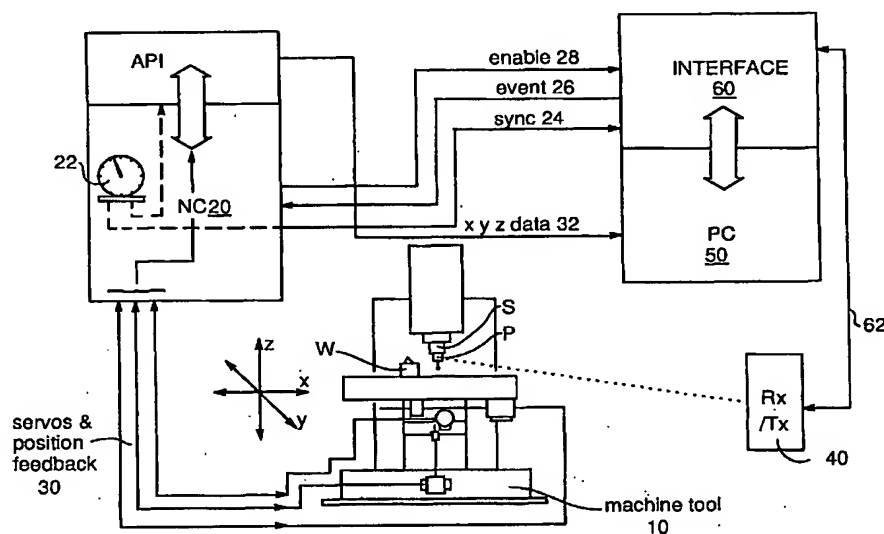
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**(54) Title: MACHINE TOOL WORKPIECE INSPECTION SYSTEM**



**(57) Abstract:** A workpiece inspection system is disclosed for determining measurements of a workpiece on a machine tool. The system utilises a measurement device which outputs data relating to the workpiece (e.g. in place of a conventional cutter). The problem of obtaining real time data relating to the position of the machine tool is overcome by recording a machine tool position data set and a measurement device data set at selected instants which are defined by a synchronisation signal. The data sets are combined later in the correct relative position because the synchronisation signal was used. The synchronisation signal can issue from the machine tool controller, an interface, measurement device or another part of the system.



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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